

GNID: Evolution, Virulence and Pathogenesis

PROGRAM

Tuesday March 7th, 2017 - Natcher Building 45, Balcony A

08:45 **Introduction** by Dr. Tom Nutman

SESSION 1 Helminths Chair: Dr. Tom Nutman

- 09:00 **Makedonka Mitreva, Washington University**
'Taxonomic, genetic and functional gut microbiome assemblages in humans infected with STHs'
- 09:30 **Sasi Bennuru, NIH**
'Integrated 'OMICS for discovery of novel biomarkers of filarial diseases'
- 09:50 **Paul Brindley, George Washington University**
'Functional genomics for schistosomes and other flukes'
- 10:20 *Coffee Break*

SESSION 2 Apicomplexa and Amoebae Chair: Dr. Michael Grigg

- 10:50 **Boris Striepen, University of Georgia**
'Functional Genomics in *Cryptosporidium*'
- 11:20 **John Parkinson, University of Toronto**
'Computational systems biology to dissect complexes and pathways driving parasite lifecycles'
- 11:50 **Asis Khan, NIH**
'Construction of an ancestral map and GWAS to identify *Toxoplasma gondii* pathogenicity determinants'
- 12:10 **Bill Petri, University of Virginia**
'Human genes influencing susceptibility to amebiasis'
- 12:40 *Lunch*

SESSION 3 Kinetoplastids Chair: Dr. Jesus Valenzuela

- 14:00 **Najib El-Sayed, University of Maryland**
'The *Leishmania*-macrophage infectome'
- 14:30 **Ehud Inbar, NIH**
'Self-mating in *Leishmania* generates genotypic and phenotypic variability'
- 14:50 **Serap Aksoy, Yale University**
'Tackling the control of Human African Trypanosomiasis: A role for vector control'
- 15:20 **Shaden Kamhawi, NIH**
'Sand fly gut microbiota plays a central role in visceralization of *Leishmania donovani* after infected bites'
- 15:40 **Wendy Gibson, University of Bristol**
'Visualising sexual reproduction in African trypanosomes'
- 16:10 *Coffee Break*

KEYNOTE LECTURE Chair: Dr. David Sacks

- 16:30 **Andy Waters, University of Glasgow**
'Experimentally inducible gametocytogenesis in *Plasmodium* leads to a transcriptional rewiring'